Dr. J. JEYAKANTHAN
Senior Professor and Head

Contact

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Academic Qualifications

Degree	Institution	Year	Branch	Class
D.Sc	Alagappa University	**2022**	Bioinformatics	**Awarded**
Ph.D.	University of Madras	**2000**	Crystallography and Biophysics	**Awarded**
M. Phil.	M. K. University	**1995**	Physics	**First**
M.Sc.	M. K. University	**1993**	Physics	**First**

Teaching Experience

Total Teaching Experience : 14 Years

Position	Institution	Duration
Senior Professor and Head	Department of Bioinformatics	April 2020 - *
Professor and Head		March 2010 - March 2020

Research Experience

Total Research Experience : 29 Years

Position	Institution	Duration
Senior Professor and Head	Department of Bioinformatics	April 2020 – Till date*
Professor and Head		March 2010 – March 2020
Research Scientist	SPring-8, Japan	May 2007 – March 2010
Researcher	RIKEN Harima Institute, SPring-8, Japan	June 2003 – May 2007
Post Doctoral Fellow	Indian Institute of Science, Bangalore	January 2000 – May 2003

Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
Administrative Roles				
1.	Member of Syndicate	Alagappa University (Nominated by Governor of Tamil Nadu)	2024	-*
2.	Member of Syndicate	Alagappa University (Nominated by Governor of Tamil Nadu)	2016	2019
3.	Senate	Alagappa University	2010	-*
Academic Position				
4.	Head of the Department	Department of Bioinformatics, Alagappa University	2010	- *
5.	Dean Faculty of Science	All Science Departments, Alagappa University	2023	- *
6.	Chairperson	School of Biological Sciences, Alagappa University	2015	- *
7.	Director	Alagappa University Ranking Cell (AURC)	2019	- *
8.	Project Coordinator and PI	DBT-Bioinformatics and Computational Biology Center (BIC) and National Network Project (NPP)	2022	- *
9.	Coordinator	DST-PURSE Program (Phase-II) – All Science Departments, Alagappa University	2017	- *
10.	Coordinator	DST-FIST Program (Level-I), Department of Bioinformatics, Alagappa University	2017	- *

11.	Coordinator	UGC Innovative Program (PG Diploma), Department of Bioinformatics, Alagappa University	2013	- *
12.	Chairman	Board of Studies of Bioinformatics, Alagappa University	2010	- *
Additional Responsibility				
13.	Ambassador	The Association of Commonwealth Universities (ACU), Alagappa University	2022	- *
14.	Member	Project Monitoring Unit Academic Core Committee of RUSA 2.0	2022	- *
15.	Member	Guru Dakshata – UGC Quality Mandates	2021	- *
16.	Member	Paramarsh - UGC Quality Mandates	2021	- *
17.	Member	CARE/STRIDE - UGC Quality Mandates	2021	- *
18.	Coordinator	Tamil Nadu State University Rating Framework (TANSURF), Alagappa University	2018	- *
19.	Member	Research Advisory Committee (RAC), Alagappa University	2016	- *
20.	Academic staff	Anti-Ragging Committee, Alagappa University	2016	- *
21.	Member	Website Maintenance Committee, Alagappa University	2010	- *
22.	Member	Standing Committee on Academic Affairs, Alagappa University	2010	- *
23.	Coordinator	Higher Education Best Practice Cell, Alagappa University	2022	2023
24.	Member	Internal Quality Assurance Cell (IQAC)	2022	2024
25.	Director	Center for Internal Quality Assurance Committee, Directorate of Online Programmes, Alagappa University	2019	2021
26.	Chairman	Board of Studies of Botany	2019	2020
27.	Head of the Department	Department of Botany, Alagappa University	2019 Mar	2019 Nov
28.	Member	Internal Quality Assurance Committee, Directorate of Distance Education (DDE), Alagappa University	2018	2020
29.	Member	Sports Advisory Board	2018	2020
30.	Member	Finance Committee	2018	2019
31.	Member	Governing Council for DDE, Alagappa University	2018	2019
32.	Member	Board of Governors of RUSA 2.0, Alagappa University	2018	2019
33.	Coordinator	National Institutional Ranking Framework Cell	2017	2019
34.	Member	Purchase Committee of Alagappa University	2016	2019
35.	Director	Collaborative Programmes, Alagappa University	2015	2017
36.	Member	Research Advisory Committee, Alagappa University	2012	2015
37.	Director	Centre for International Relations, Alagappa University	2012	2016
38.	Coordinator	Career Guidance & Counseling Cell, Alagappa University	2012	2013
39.	Member	Internal Quality Assurance Cell (IQAC)	2010	2016

Areas of Research

Broad Subject : Structural Biology and Bio-Computing

Area of Specialization : Small and Macro Molecule X-ray Crystallography

Current Research focus

- **Structural and Functional Studies on Vital Drug Targets**

  ❖ My research focuses on Structural Biology, Computer-Aided Drug Design, and Bio-Computing. I have 29 years of Research expertise in Structural and Functional aspects of model organisms *Thermus thermophilus* HB8 and *Pyrococcushorikoshii* OT3 (which shares similarity to the human genome) and disease-associated targets such as Cancer (Pak1), Diabetes (SIRT4), Chikungunya (nsP2 Protease), Dengue (STAT2), Filariasis (lysine and peptidoglycan biosynthesis proteins of Wolbachia endosymbiont of *Brugiamalayi*), Malaria (*Plasmodium falciparum*), TB (*Mycobacterium tuberculosis*), SARS-CoV-2 (Covid-19), clinical isolates of ESKAPE Pathogens, *Serratia marcescens* and *Nocardia Species* (nosocomial infections).

- **Development of Databases, Software and Tools**

  ❖ Web based search engines for analyzing macromolecular interactions

Patents Filed

S.No.	Title of Patent / Tech.Transfer / Product / Process	Author(s)	Patent Number	Date	Status (Filed/ Published / Granted)
1.	A Process of Extraction of Copper Oxide Nanoparticles Using Green Synthesis	Dr. A. Sivaranjini, Dr. R. Subashkumar, Dr. P. Boomi, Dr. S. Santhosh Baboo, Dr. B. L. Shivakumar, A. Aswini, **Dr. J. Jeyakanthan,** Dr. H. Gurumallesh Prabhu, Dr. P. Sagadevan	202141049992	December, 2021	Published
2.	Synergistic formulation for preventing antibiotic resistance effect ofserratia marcescens	Dr.Dhamodharan prabhu, Dr.Sundarraj rajamanikandan, Ramasamy palaniappan, **Dr. J. Jeyaraman**	202241057508 A	December, 2022	Published

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	06	03
	Ph.D.	14	10
	M.Phil.	08	-
Project	PG	61	-
	UG / Others	10	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
224	108	04	145	18

Cumulative Impact Factor (as per JCR) : 830.28
h-index : 32
i10 index : 95
Citations : 3869

Funded Research Projects (Total: Rs.2216.955 Lakhs)

Ongoing Projects: (Total Fund recieved: 554.31 Lakhs)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	**MOE-STARS**	2024	-*	Understanding the Mechanism of SARS-CoV-2 RNA Replication Initiation and Proofreading for Therapeutics	91.00
2.	**DBT**	2023	- *	DBT-National Network Project (NNP) (Project Coordinator and PI)	144.56
3.	**DBT**	2022	- *	DBT – Bioinformatics and Computational Biology Center (Project Coordinator and PI)	183.80
4.	**DST INDO-TAIWAN**	2020	2024	Structural and functional insights of potential anti-malarial drug targets of G6PD and 6PGD from *Plasmodium falciparum*(3D7)	73.72
5.	**TANSCHE**	2021	2024	Structural and functional characterization of phospeotransacetylase (PTA) and Acetate Kinase (ACKA) from Mycobacterium tuberculosis H3R7Rv using *in silico* and *in vitro* studies	29.80

6.	**ICMR**	2022	2024	Computational and functional characterization of peptide inhibitors disrupting LIMK2-cofilin interaction as a novel therapeutic target towards Glaucoma (Co-PI)	15.80
7.	**RUSA 2.0 (Phase -II)**	2022	2023	Experimental and Computational Drug Discovery Studies for Life-Threatening Diseases under the Central theme, Translational Health Research for Human, Animal and plant Systems	15.63

Completed Projects: (Total Fund recieved: 424.09 Lakhs)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	**RUSA 2.0 (Phase -I)**	2019	2021	Experimental and Computational Drug Discovery Studies for Life-Threatening Diseases under the Central theme, Translational Health Research for Human, Animal and plant Systems	18.14
2.	**DAE-BRNS**	2018	2021	Design, Synthesis and *in vitro* anticancer activity of novel and potent signaling influences therapeutic outcome in pancreatic cancer vated kinase 1 (Pak1) inhibitors	30.33
3.	**ICMR**	2017	2020	Structural insights of SIRT4 protein from *Homo sapiens* to identify inhibitors for the treatment of Type-II diabetes	33.34
4.	**DST-SERB**	2016	2019	Identification of Potential Anti-Filiarial drug targeted enzymes Wbm0441, Wbm0042 from Wolbachia endosymbiont *Brugia malayi*	69.38
5.	**UGC-RA**	2016	2018	Structural and Functional Insights of potential therapeutic dengue fever target STAT2 protein from *Homo Sapiens*	37.8
6.	**DBT**	2015	2018	Development of Web Based Search Engines for the Analyses of Protein interactions with Nucleotides, Fatty Acids and Buffers	13.81
7.	**DST**	2013	2016	Structural and Functional Studies of Purine Biosynthesis complex from *Pyrococcus horikoshii* OT3	48.98
8.	**DBT-Twin**	2013	2016	Structural and Functional Studies of Translation Initiation factors from *Pyrococcus horikoshii* OT3	77.00
9.	**DBT**	2012	2015	Structure determination of CPS and ATCase of *Thermus thermophilus* HB8 and identification of potential inhibitors	32.16
10.	**DBT**	2012	2015	Structural and Functional analysis of Orotate Phosphoribosyl transferase (TTHA1742) and Dihydroorotate Dehydrogenase (TTHA0779) from *Thermus thermophilus* HB8	50.25

11.	**UGC**	2012	2015	Structure and functional studies on PH0140 protein from *Pyrococcus horikoshii* OT3	12.903

Other Fund Received as Research Mentor: (Total Fund recieved: 186.37 Lakhs)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	**ICMR-Women Scientist Fellow**	2024	2027	Deciphering the Microbiomes Role in Breast Cancer Progression: A Metagenomic and Bioinformatics Approach to Identifying Biomarkers and Therapeutic Targets	50.07
2.	**ICMR - SRF**	2022	2023	Structural and Functional Insights on Anti-Filarial Drug targeted enzymes using *in silico* and *in vitro* approach	4.77
3.	**ICMR - SRF**	2022	2024	Computational and Experimental Characterization of Therapeutic Protein Targets in *Acinetobacter baumanniii*	9.55
4.	**ICMR - SRF**	2022	2024	Structural studies on polyamine biosynthesis enzymes	9.55
5.	**ICMR - RA**	2022	2024	Three-dimensional structure determination of Bacterial DNA Adenine Methyltransferase from *Acinetobacter baumannii* to be used as drug targets for designing antibiotics	13.20
6.	**ICMR - RA**	2022	2024	Structural and Functional Insights of Vancomycin Resistant Protein VanR from *Enterococcus faecium* using In vitro and in silico Approach	13.20
7.	**UGC Kothari Fellow**	2022	2024	Investigation of potential inhibitors for alpha linolenic acid (ALA) metabolism in the human malaria parasite	20.96
8.	**ICMR - SRF**	2020	2022	Experimental and Computational studies on Proteins involved in Peptidoglycan biosynthesis pathway from *Wolbachia* Endosymbiont of *Brugia malayi*	9.47
9.	**ICMR - SRF**	2019	2021	Structural insights mechanism of type II diabetes proteins from *home sapiens* to identify potential inhibitors computational and biochemical studies	8.80
10.	**ICMR - SRF**	2018	2020	Structural and functional elucidation and inhibitors identification for SMATase from *Serratia marcescens* to overcome antibiotic resistance	8.97
11.	**UGC - OBC**	2016	2021	Transcriptional Regulation by p21-Activating kinase-1 with an Agonist RUNX3 and Antagonist peptides modulating Pancreatic	19.06

				Cancer: A Structural and Computational approach	
12.	**UGC - MANF**	2014	2019	Structural and functional studies on Transcriptional regulatory proteins from *Thermus thermophilus* HB8 and *Pyrococcus horikoshii* OT3 - *In silico* and *in vitro* studies	18.16

Consultancy Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	Schrödinger, USA	2011	Till date	Computer Aided Drug Design	Collaboration and Skill Training for Research Scholars and Students
2.	University/ Institution	2012	2016	Computer Aided Drug Design	1.70
3.	GE Health care	2012	Till date	Protein Purification and Downstream Bioprocessing	Collaboration and skill training for Research Scholars and Students

Schemes Received for the Department:

S. No	Agency	Period		Scheme/Research Support	Budget (Rs. In lakhs)
		From	To		
1.	**DST**	2018	Till date	DST-FIST (Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions) Level – I	62
2.	**DST**	2017	Till date	DST-PURSE Programme (Phase 2) All Science Departments (Co-ordinator)	700
3.	**UGC**	2013	2018	UGC Innovative Programme – PG Diploma in Structural Pharamacogenomics (Post M.Sc. – One year Course)	54 + 2 Assistants Professor Salary for 5 yrs

Distinctive Achievements / Awards

Year	Award	Awarded by
2024	Outstanding Academic and Researcher Award	Alagappa University
2023	Outstanding Academic and Researcher Award	Alagappa University
2022	Outstanding Researcher Award	Alagappa University

2020	Tamilnadu Scientist Award (TANSA) by Tamil nadu State Council for Science and Technology	Government of Tamil Nadu
2019	MHRD – LEAP award by NIT- Trichy & NTU-singapore	Government of India
2016	UGC Research Award	Government of India
2015	Fellow of Academy of Sciences	Government of Tamil Nadu
2007	Who's Who Scientific Directory	Marquis, USA
1999	IUCr Young Scientist	UK
1999	Young Scientist Travel Award by DST and UNESCO	UK
1997	CSIR SRF-JRF	Government of India

Events Organized and Fund Generated from Various Funding Agency

Number of Seminars / Conferences / Workshops / Events organized: 22

International			
Position	**Programme**	**Duration**	**Institution**
Convenor	International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD'2022)	Nov. 21st - 25th, 2022	Alagappa University, Tamil Nadu, India.
Convenor	International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD'2019)	Dec. 11th - 13th, 2019	Alagappa University, Tamil Nadu, India.
Convenor	International Conference on Innovative and Emerging Trends in Botany (ICIETB-2019)	Nov. 6th -7th, 2019,	Alagappa University, Tamil Nadu, India.
Co-Convenor	International Conference on Recent Trends in Biosciences-2016 (ICRTB-2016)	Apr. 07th - 09th, 2016	Alagappa University, Tamil Nadu, India.

National			
Convenor	11th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2019)	Feb. 12th-15th, 2019	Alagappa University, Tamil Nadu, India.
Organizing Secretary	10th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2018)	Feb. 20th-23rd, 2018	Alagappa University, Tamil Nadu, India.
Convenor	9th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2017)	Feb. 14th-17th, 2017	Alagappa University, Tamil Nadu, India.
Convenor	8th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2016)	Feb. 16th-19th, 2016	Alagappa University, Tamil Nadu, India.
Organizing Secretary	7th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2015)	Feb. 24th-27th, 2015	Alagappa University, Tamil Nadu, India.
Convenor	6th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2014)	Feb. 18th-21st, 2014	Alagappa University, Tamil Nadu, India.
Convenor	5th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2013)	Feb. 19th-22nd, 2013	Alagappa University, Tamil Nadu, India.
Convenor	4th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2012)	Feb. 20th-23rd, 2012	Alagappa University, Tamil Nadu, India.
Convenor	National Youth day	Jan. 12th, 2012	Alagappa University, Tamil Nadu, India.
Organizing Secretary	3rd National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2010)	Dec. 20th-22nd, 2010	Alagappa University, Tamil Nadu, India.

Events Participated

Number of Conferences / Seminars / Workshops: 253

Overseas Exposure / Visits

29th - 31st January, 2019	Binary University of Management and Entrepreneurship, Malaysia
8th - 10th April, 2019	Tianjin University, China
11th -12th April, 2019	Nanyang Technological University, Singapore
05th - 09th December, 2017	National Synchrotron Radiation Research Centre, Taiwan
22nd - 30th June, 2014	Osaka University and RIKEN SPring-8, Japan
02nd - 08th December, 2012	
09th - 16th December, 2011	
22nd March - 30th May, 2010	
Visited Country	USA, UK, Australia, Japan, Italy, China, Korea, Singapore, Taiwan, Hawaii, and Malaysia

Membership

Professional Bodies

1. Member in American Crystallographic Association
2. Vice-President & Life Member, Bioinformatics and Drug Discovery Society (BIDDS)
3. Member in British Crystallographic Association
4. Executive Committee Member in Indian Crystallographic Association
5. Life Member, Indian Science Congress Association
6. Life Member, Chemical Research Society of India
7. Life Member, Society of Biological Chemists, India
8. Life Member, Biotech Research Society, India
9. Member in the World Directory of Crystallographers

Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / AdministrativeCommittee / Academic Committee	Role
2022 -*	Karpagam Academy of Higher Education, Coimbatore	Distinguished Adjunct Faculty
2022 -*	Board of Studies in Department of Bioinformatics, Bishop Heber College, Bharathidasan University, Trichy.	Member
2022 -*	Board of Studies in Department of Bioinformatics, Bharathidasan University, Trichy.	Member
2022 -*	Board of Studies in Department of Bioinformatics, University of Madras.	Member
2020 - *	Board of Studies in Department of Bioinformatics, School of Chemical and Biotechnology, SASTRA Deemed University, Thanjavur.	Member
2019 - *	Research Advisory Committee, Karpagam Academy of Higher Education, Coimbatore	Member
2018 - *	Board of Studies in Bioinformatics, Bharathiar University, Coimbatore.	Member
2019 - 2021	Local Program Planning & Management Committee (LPPMC), Bharathiar University, Coimbatore	Member
2019 (Mar - Nov)	Board of Studies of Botany, Alagappa University.	Member
2018 - 2021	Research Committee, Bharathidasan University, Trichy	Member
2018 - 2021	Board of Studies in Environmental Biotechnology, Bharathidasan University, Trichy.	Member
2017 - 2019	Academic Council, Thassim Beevi Abdul Kader College for Women, Ramanathapuram	Member
2015 - 2018	Standing Committee on Academic Affairs, Bharathidasan University, Trichy.	Member
2015 - 2020	SAP implementation and governance of in Department of Physics, Punjab University, Chandigarh	Member
2015 - 2018	Board of Studies in Bioinformatics and Information Technology, Thiruvalluvar University, Vellorarche.	Member
2015 - 2018	Board of Studies in Bioinformatics (UG, PG & PG Diploma), Bharathidasan University, Trichy.	Member
2015 - 2017	Board of Studies in Bioinformatics, Bharathiar University, Coimbatore.	Member
2014 - 2017	Board of Studies in Faculty of Bio and Chemical Engineering, Sathyabama University, Chennai.	Member
2013 - 2016	Board of Studies of Bioinformatics (Bharathidasan University), Holy Cross College, Trichy.	Member
2012 - 2015	Board of Studies of Bioinformatics, Periyar University, Salem.	Member

2012 - 2015	Board of Studies of Physics, V.H.N.S.N. College, Virudhunagar.	Member

Ph.D. Thesis Evaluvated / Viva Voce Conducted

1. No. of PhD Thesis evaluated : 52
2. No. of PhD Public Viva Voce Examination conducted : 32

List of Research Articles / Recent Publications (Total Number of Punlications: 228)

S. No	Author Details and Title of Paper	Impact Factor
1.	Prabhu, D., Shankari, G., Rajamanikandan, S., **Jeyakanthan, J.,** Velusamy, P., Gopinath, S. C., & Pattabi, S. Designing potential lead compounds targeting aminoglycoside N (6′)-acetyltransferase in Serratia marcescens: A drug discovery strategy. *Int J Biol Macromol*, (2024).	8.2
2.	Amala, M., Nagarajan, H., Ahila, M., Nachiappan, M., Veerapandiyan, M., Vetrivel, U., & **Jeyakanthan, J.** Unveiling the intricacies of allosteric regulation in aspartate kinase from the Wolbachia endosymbiont of Brugia Malayi: Mechanistic and therapeutic insights. *Int J Biol Macromol*, (2024).	8.2
3.	Mathimaran, A., Nagarajan, H., Mathimaran, A., Huang, Y. C., Chen, C. J., Vetrivel, U., & **Jeyaraman, J**. Deciphering the pH-dependent oligomerization of aspartate semialdehyde dehydrogenase from Wolbachia endosymbiont of Brugia malayi: An in vitro and in silico approaches. *Int J Biol Macromol*, (2024).	8.2
4.	Rangaswamy, R., Hemavathy, N., Subramaniyan, S., Vetrivel, U., & **Jeyakanthan, J.** Harnessing allosteric inhibition: prioritizing LIMK2 inhibitors for targeted cancer therapy through pharmacophore-based virtual screening and essential molecular dynamics. *J. Biomol. Struct. Dyn.* 1-18. (2023).	4.4
5.	Ahmad, M., Jha, B., Bose, S., Tiwari, S., Dwivedy, A., Kar, D., Pal, R., Mariadasse, R., Parish, T., **Jeyakanthan, J.,** Vinothkumar, K. R., & Biswal, B. K. Structural snapshots of Mycobacterium tuberculosis enolase reveal dual mode of 2PG binding and its implication in enzyme catalysis. *IUCrJ*. (2023)	5.588
6.	Karthika, A., Hemavathy, N., Amala, M., Rajamanikandan, S., Veerapandian, M., Prabhu, D., Umashankar V., Chen CJ., Chitra JP., & **Jeyakanthan, J.** Structural and functional characterization of 6-phosphogluconate dehydrogenase in Plasmodium falciparum (3D7) and identification of its potent inhibitors. *J. Biomol. Struct. Dyn.* 1-17. (2023).	5.235
7.	Ramachandran, B., Muthupandian, S., **Jeyaraman, J.,** & Lopes, B. S. Computational exploration of molecular flexibility and interaction of meropenem analogs with the active site of oxacillinase-23 in Acinetobacter baumannii. *Front. Che. 11* (2023).	5.545
8.	Balu, R., Ramachandran, S. S., Mathimaran, A., **Jeyaraman, J.,** & Paramasivam, S. G. Functional significance of mouse seminal vesicle sulfhydryl oxidase on sperm capacitation in vitro. *Mol. Hum.*	4.518

	Reprod.(2022).	
9.	Kanumuri, R., Chelluboyina, A. K., Biswal, J., Vignesh, R., Pandian, J., Venu, A., Vaishnavi, B., Leena, D. J., **Jeyaraman, J.,** Ganesan, K., Aradhyam, G. K., Venkatraman, G., & Rayala, S. K. Small peptide inhibitor from the sequence of RUNX3 disrupts PAK1-RUNX3 interaction and abrogates its phosphorylation-dependent oncogenic function. *Oncogene*. 40(34):5327-5341 (2021)	9.867
10.	Mariadasse, R., Rajmichael, R., Dwivedy, A., Amala, M., Ahmad, M., Mutharasappan, N., Biswal, B. K., &**Jeyakanthan, J.** Characterization of putative transcriptional regulator (PH0140) and its distal homologue. *Cell Signal*. *84*, 110031 (2021)	4.315
11.	Ahmad, M., Dwivedy, A., Mariadasse, R., Tiwari, S., Kar, D., **Jeyakanthan, J.,** & Biswal, B. K. Prediction of small molecule inhibitors targeting the severe acute respiratory syndrome coronavirus-2 RNA-dependent RNA polymerase. *ACS omega*, *5*(29), (2020). 18356-18366.	4.132
12.	Murugan, N. A., Kumar, S., **Jeyakanthan, J.,** & Srivastava, V. Searching for target-specific and multi-targeting organics for Covid-19 in the Drugbank database with a double scoring approach. *Sci Rep*. *10*(1),19125.(2020).	5.133
13.	Murugan, N. A., Muvva, C., Jeyarajpandian, C., **Jeyakanthan, J.,** & Subramanian, V. Performance of Force-Field- and Machine Learning-Based Scoring Functions in Ranking MAO-B Protein-Inhibitor Complexes in Relevance to Developing Parkinson's Therapeutics. *Int J Mol Sci*. . *21*(20), 7648. (2020).	5.923
14.	Chaudhary, S. K., Elayappan, M., **Jeyakanthan, J.,** & Kanagaraj, S. Structural and functional characterization of oligomeric states of proteins in RecFOR pathway. *Int J Biol. Macromol.163*, 943-953. (2020).	6.953
15.	Mariadasse, R., Choubey, S. K., & **Jeyakanthan,** J. Insights into Exogenous Tryptophan-Mediated Allosteric Communication and Helical Transition of TRP Protein for Transcription Regulation. *J Chem Inf Model*. *60*(1), 175–191. (2020).	4.956
16.	Chaudhary, S. K., Iyyappan, Y., Elayappan, M., **Jeyakanthan, J.,**& Sekar, K. Insights into product release dynamics through structural analyses of thymidylate kinase. *Int J Biol Macromol*. *123*, 637–647. (2019).	6.953
17.	Nachiappan, M., Jain, V., Sharma, A., Yogavel, M., & **Jeyakanthan, J.** Structural and functional analysis of Glutaminyl-tRNA synthetase (TtGlnRS) from Thermus thermophilus HB8 and its complexes. *J Biol Macromol*.*120*(Pt B), 1379–1386. (2018).	6.953
18.	Jagadeeshan, S., Subramanian, A., Tentu, S., Beesetti, S., Singhal, M., Raghavan, S., Surabhi, R. P., Mavuluri, J., Bhoopalan, H., Biswal, J., Pitani, R. S., Chidambaram, S., Sundaram, S., Malathi, R., **Jeyaraman, J.,** Nair, A. S., Venkatraman, G., & Rayala, S. K. P21-activated kinase 1 (Pak1) signaling influences therapeutic outcome in pancreatic cancer. *Ann Oncol*.*27*(8), 1546–1556. (2016).	32.976

Contribution in book/ chapters – 15

S. No	Particulars	Publisher and Year
1.	P. Shanmugavel & **J. Jeyakanthan.** Molecular Interactions (ISBN: 8170195116)	Today & Tomorrows Printers and Publishers, 2015
2.	Nachiappan M, Guru R Rao, Richard M, Saritha P, Amala M, Prabhu D, Rajamanikandan S, Chitra JP & **Jeyakanthan J**. Experimental and Computational Methods to Determine Protein Structure and Stability. Frontiers in Protein Structure, Function, and Dynamics (ISBN 978-981-15-5529-9) Pages: 23 - 55.	Springer, USA 2020
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